

## ABSTRACT

Title: DEVICE FOR AUTOMATIC CORRECTION OF THE ORIENTATION OF A MOTOR-VEHICLE HEADLAMP IN ELEVATION

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The present invention relates to a device for automatic correction of the orientation of at least one motor-vehicle (V) headlamp (P) upon variations in the attitude of the motor vehicle (V), including

- an emitter (1) projecting onto the ground in front of the vehicle (V), two light spots ( $T_1$ ,  $T_2$ ) which are spaced apart in a direction parallel to the longitudinal axis of the vehicle (V),
- a sensor (2) of the illumination of the light spots ( $T_1$ ,  $T_2$ ) comprising an objective (3) forming an image ( $I_1$ ,  $I_2$ ) of the light spots ( $T_1$ ,  $T_2$ ) on a receiver (6) and supplying an output signal ( $dc_1$ ,  $dc_2$ ) for each one,
- processing means (5) suitable for deriving a control signal from the output signal from the sensor (2), and
- an actuator (4) controlled by the control signal and able to alter the elevation orientation of a reflector (R) of the headlamp (P).

According to the present invention, the control signal for the actuator (4) is derived by the processing means (5) on the basis of a linear function of the output signals ( $dc_1$ ,  $dc_2$ ) supplied by the sensor (2) for each image ( $I_1$ ,  $I_2$ ) of each light spot ( $T_1$ ,  $T_2$ ).

Figure to be published with the abstract: Figure 2